FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	SEE TITLE SHEET		

SIGNALS

1,4 — 12"/8" | 2,5 — 12" | 3,6–12 — 12" | 13–18 — 12"

SIGNS

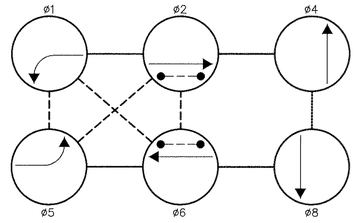
19,20 — R 10–12, 36"x 42" (LEFT TURN YIELD ON GREEN)

21,22 — R 3–5(L), 30"x 36" (ONLY)

23–26 — R 10–3C, 9"x 12"

27,28 — R 10–3C, 9"x 12"

NEMA PHASING

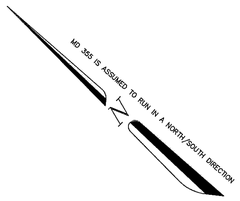


FLASHING OPERATION

Alt. ø8

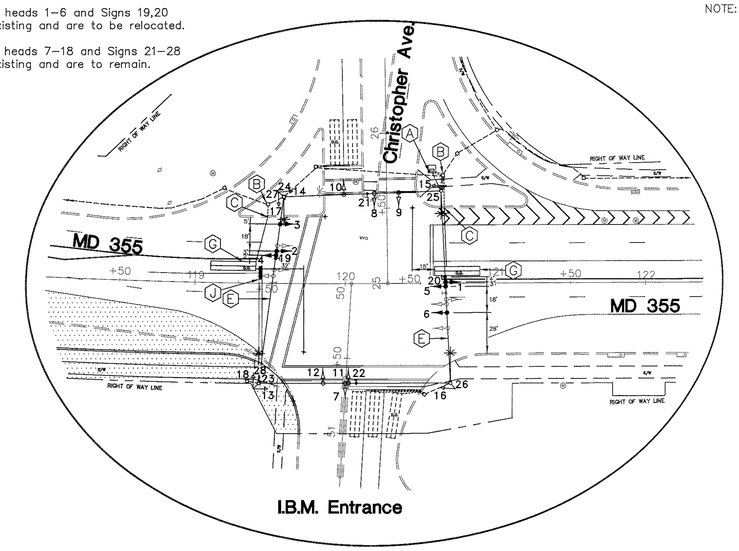
PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY



NOTE: Signal heads 1–6 and Signs 19,20 are existing and are to be relocated.

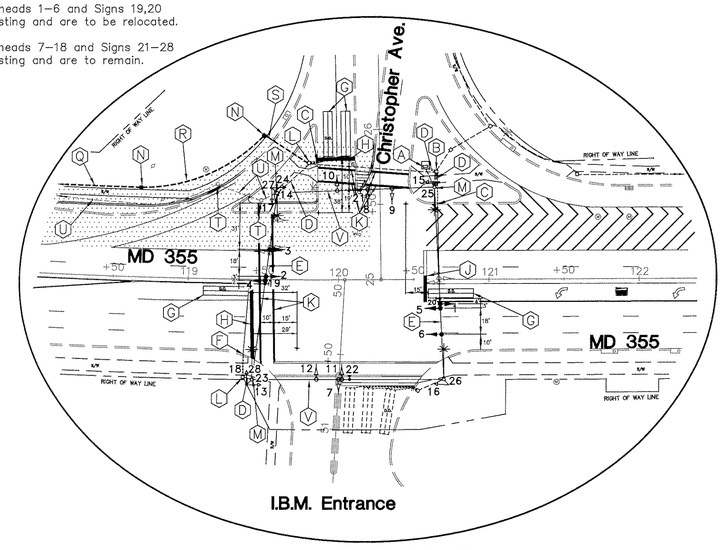
Signal heads 7–18 and Signs 21–28 are existing and are to remain.



Maintenance of Traffic
Phase 1, Stage 2

NOTE: Signal heads 1–6 and Signs 19,20 are existing and are to be relocated.

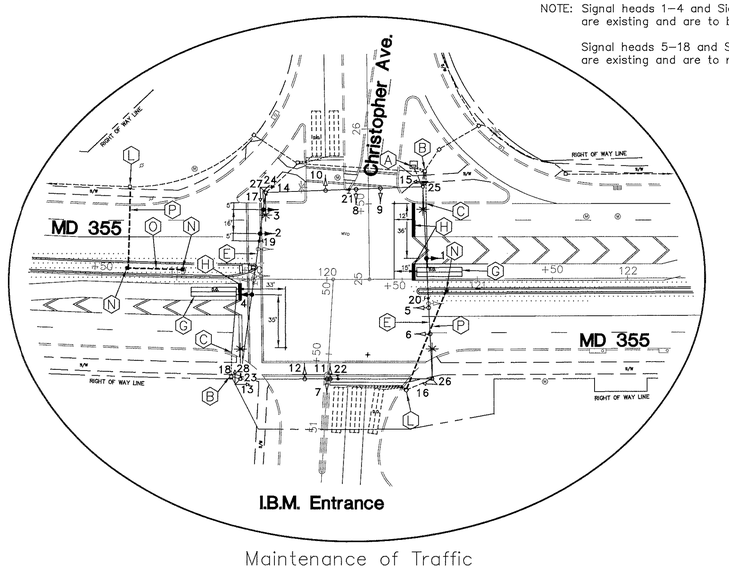
Signal heads 7–18 and Signs 21–28 are existing and are to remain.



Maintenance of Traffic
Phase 2, Stage 2

NOTE: Signal heads 1–4 and Sign 19 are existing and are to be relocated.

Signal heads 5–18 and Signs 20–28 are existing and are to remain.



Maintenance of Traffic
Phase 2, Stage 3

Intersection Operation

The existing phasing, cabinet and controller are to be utilized.

Construction Details

A. Existing cabinet/controller are to be utilized.
B. Use existing handhole and splice new loopwire to existing 2–conductor aluminum sheilded cable.
C. Use existing loop detector sleeve.
D. Use existing conduit.
E. Use existing span wire, traffic signal heads, and sign. Relocate as shown.
F. Install 1 in. galvanized steel conduit for loop detector sleeve.
G. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2–4–2 turns).
H. Install 24 in. preformed white pavement marking for stop line.
J. Extend existing stop line with 24 in. preformed white pavement marking.
K. Install 12 in. preformed white pavement marking for crosswalk.
L. Use existing handhole.
M. Use existing strain pole.
N. Install handhole.
O. Install 2 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
P. Install 2 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
Q. Conduit for interconnect. Refer to interconnect plans.
R. Install 4 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
S. Install 4 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
T. Remove existing handhole.
U. Cap and abandon existing conduit.
V. Use existing span wire.

Equipment List "B"

Equipment to be furnished and/or installed by the Contractor.

Quantity	Unit	Description
330	LF	12 in. preformed white pavement marking for pedestrian crossing.
165	LF	24 in. preformed white pavement marking for stop line.
1075	LF	Sawcut for signal loop detector.
2775	LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
15	LF	1 in. galvanized steel conduit for loop detector sleeve.
35	LF	2 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
125	LF	2 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
100	LF	4 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
30	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
375	LF	2–conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
16	EA	Relocate existing traffic signal head – span wire mount.
7	EA	Loop detector splice.
52.5	SF	Relocate existing sheet aluminum signing – overhead mount.
5	EA	Handhole.
5	EA	Ground rod – 3/4 in. diameter x 10 ft. length.

LEGEND

– CONSTRUCTION AREA

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
D — STORM DRAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
C — CABLE TELEVISION

NOTES

1. "D.O." indicates delay output loop detector.
2. Proposed geometrics shall be confirmed prior to the installation of signal equipment.
3. Loop detectors and conduit shall be installed prior to the installation of pavement markings.
4. Pavement markings detailed are proposed and are to be installed by the contractor in accordance with S.H.A. standards. All other pavement markings not detailed will be installed as part of the highway contract.
5. Revision 'B' is a revision to the traffic signal built in September, 1986 under Contract S.H.A. No.: BW–890–801–312.
6. All utilities are shown in their approximate location and are not to be considered as complete. The Contractor shall be responsible for contacting Miss Utility to verify the the locations of all utilities. The Contractor shall contact the appropriate personel prior to construction to avoid potential conflicts so that field adjustments can be made.
7. Interconnect to be maintained at all times.

Sheet 35 of 52

Revision 'B'

A/E GROUP, INC.
CONSULTING ENGINEERS • PLANNERS
11409 CRONHILL DRIVE
OWINGS MILLS, MD. 21117
(410) 363–1908
A/E JOB NO: 94–264

REVISIONS	APPROVALS
B November 6, 1995 Rebuild to new geometrics. S.H.A. No.:M 611–501–371	CHIEF, SIGNAL DESIGN SECTION — ORIGINAL ON FILE
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION SIGNAL # 15035515.86

DRAWN BY: T. Zaydel
DES. BY: T. Zaydel
CHK. BY: D. Doda

MD 355 at Christopher Avenue/ IBM Entrance

COUNTY: MONTGOMERY

DATE: September 26, 1986
SCALE: 1" = 50'

F.A.P. NO. N/A
S.H.A. NO. BW–890–801–312

TS/STD. NO. 2230B-X2-P

SHEET NO. _____ OF _____